

Advanced C Programming And It's Application

Review: Environment Setup

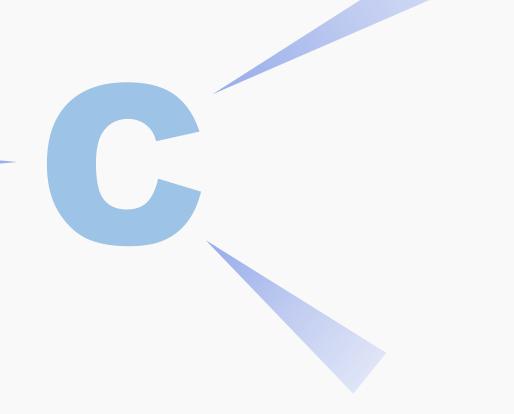
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Department of Artificial Intelligence, Tamkang University Sep. 29, 2021

<Outline/>

大綱

- [1] Environment setup
- [2] Hello world
- [3] What's compile?





環境建置 step 1

下載安裝編譯器

https://gcc.gnu.org/install/

安裝完記得設定環境變數。

- I. https://sites.google.com/site/mycprogrammingbook/bu-chong-cai-liao/gccanzhuang
- 2. https://www.itread01.com/content/1541796255.html
- http://kaiching.org/pydoing/c/gcc.html

Installing GCC

The latest version of this document is always available at http://gcc.gnu.org/install/. It refers to the current development sources, instructions for specific released versions are included with the sources.

This document describes the generic installation procedure for GCC as well as detailing some target specific installation instructions.

GCC includes several components that previously were separate distributions with their own installation instructions. This document supersedes all package-specific installation instructions.

Before starting the build/install procedure please check the host/target specific installation notes. We recommend you browse the entire generic installation instructions before you proceed.

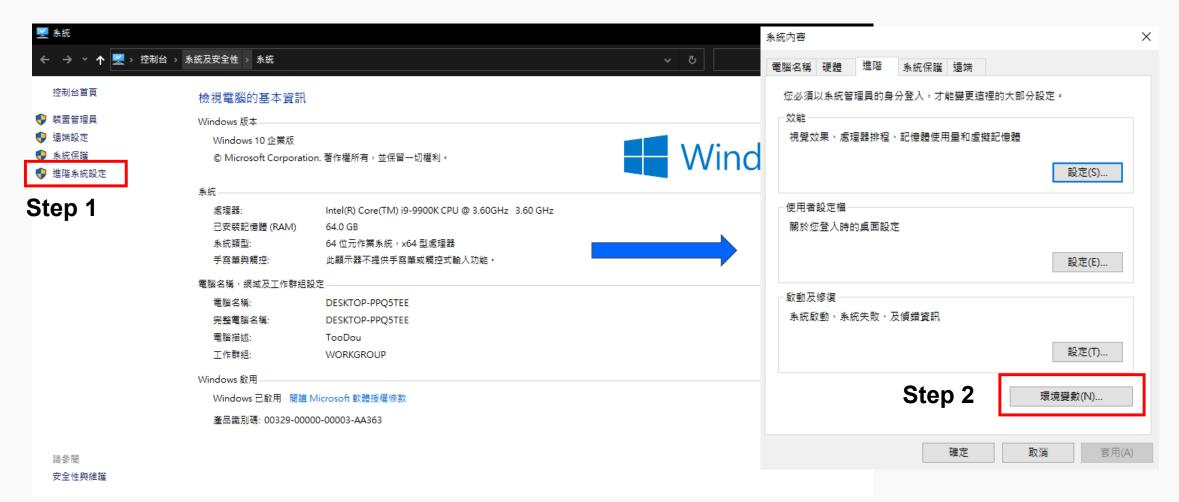
Lists of successful builds for released versions of GCC are available at http://gcc.gnu.org/buildstat.html. These lists are updated as new information becomes available.

The installation procedure itself is broken into five steps.

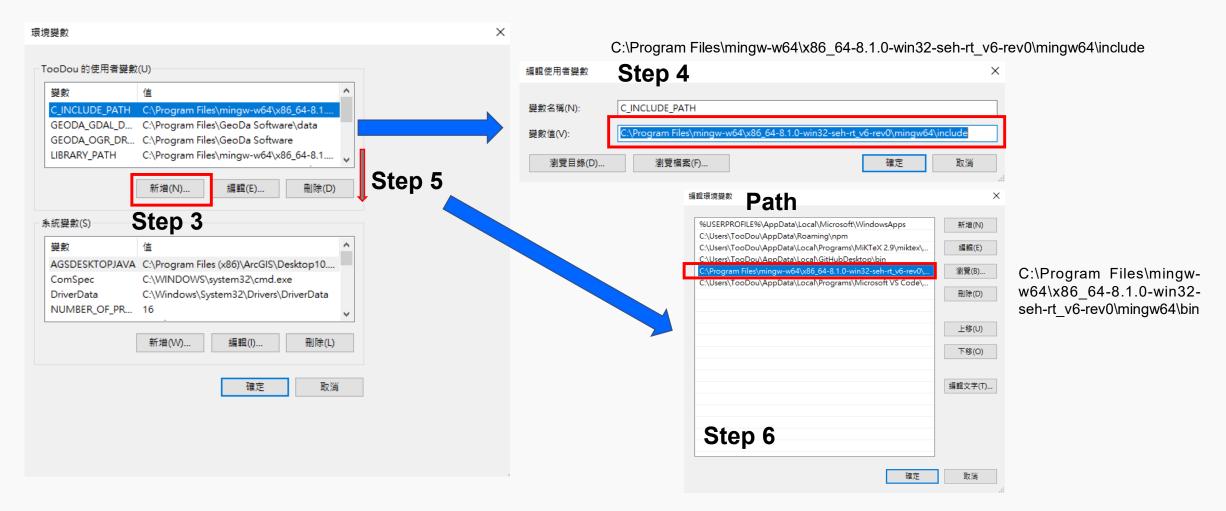
1. Prerequisites



環境建置 step 1

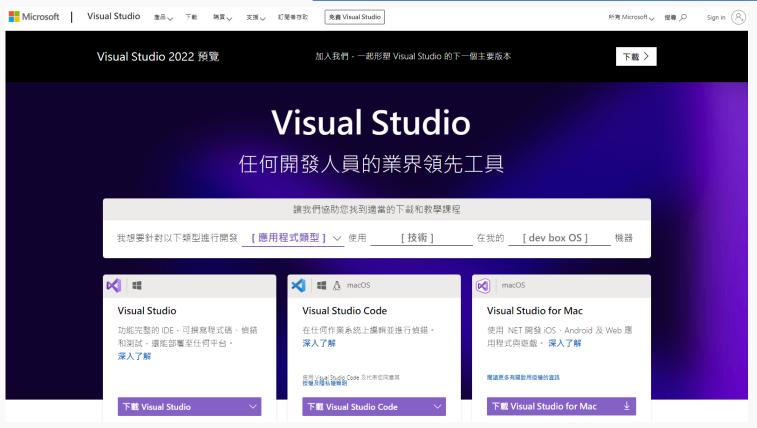


環境建置 step 1



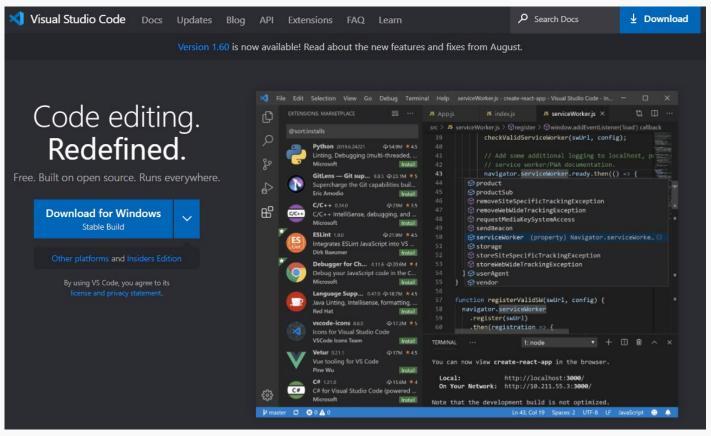
環境建置 step 2.1

較肥的版本。。。 https://visualstudio.microsoft.com/zh-hant/



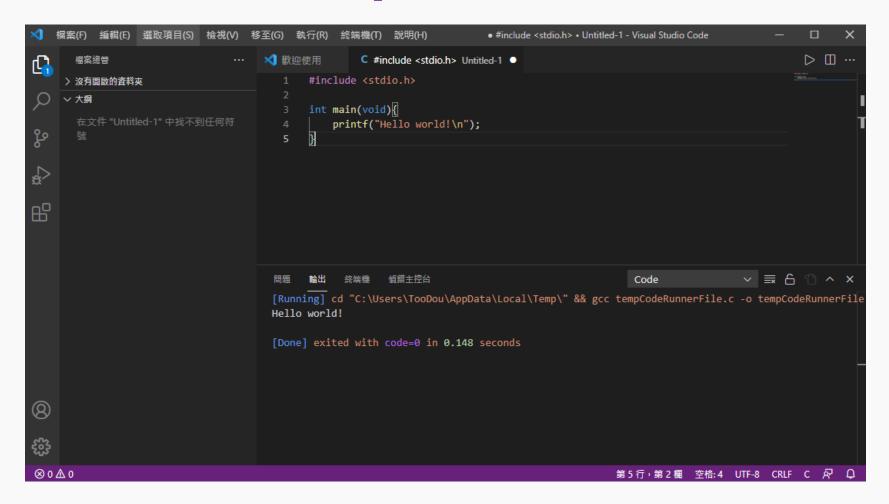
環境建置 step 2.2

較light的版本。。。 https://code.visualstudio.com/



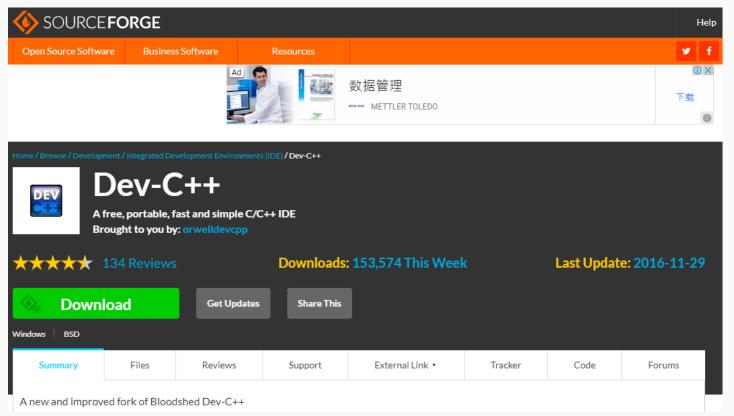


環境建置 step 2.2



環境建置 step 2.3

最light的版本。。。 https://sourceforge.net/projects/orwelldevcpp/

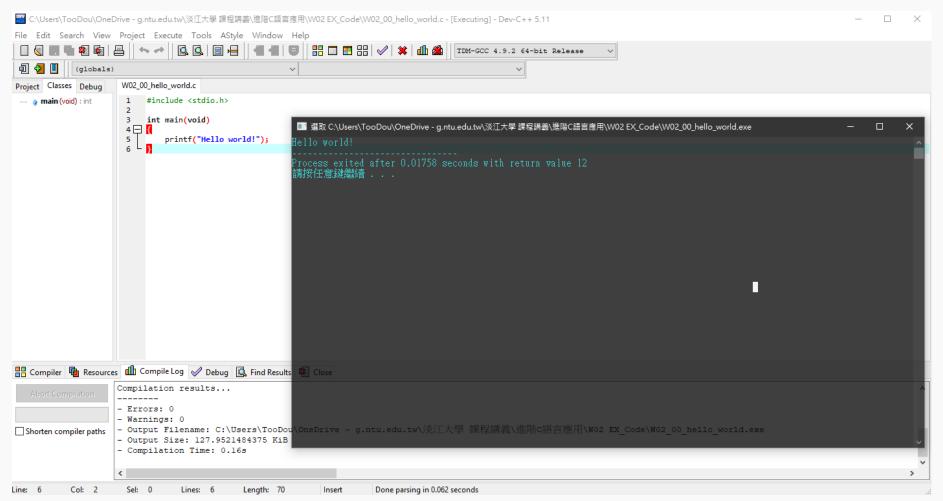


介紹網站:

https://www.csie.ntu.edu.tw/ ~b98902112/cpp_and_algo/ devcpp/README.html

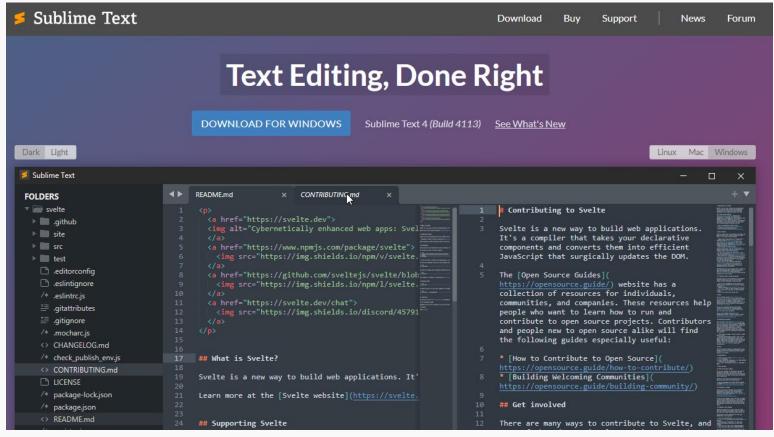


環境建置 step 2.3



環境建置 step 2.4

看起來比較厲害的方式。。。 https://www.sublimetext.com/



環境建置 step 2.4

```
C:\Users\TooDou\OneDrive - g.ntu.edu.tw\淡江大學 課程講義\進階C語言應用\W02 EX_Code\W02_00_hello_world.c - Subli
    <u>E</u>dit <u>Selection Find <u>View Goto Tools Project Preferences Help</u></u>
     W02_00_hello_world.c
       #include <stdio.h>
        int main(void)
             printf("Hello world!");
Hello world![Finished in 151ms]
```

<Hello world/>

Hello world

```
#include <stdio.h>
int main(void)
{
    printf("Hello world!");
}
```

* void代表不回傳任何數值





What's compile?

This is your code!

```
wo2_00_hello_world.c x

finclude <stdio.h>

int main(void)

{
printf("Hello world!");
}
```



This is your computer!





So, what's going on here?

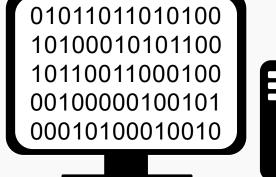
Picture link: https://bit.ly/3AJQly9



<Compile/>

What's compile?

This is your computer!









Translation from programming language to digital language.

This is your code!

```
woz_oo_hello_world.c x

finclude <stdio.h>

int main(void)

{
printf("Hello world!");
}
```

Picture link: https://bit.ly/3AJQly9



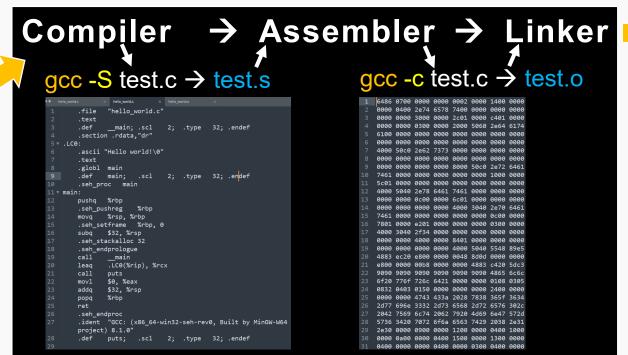


What's compile?

This is your code!

```
woz_oo_hello_world.c  x

function = x
```





Simple version: https://www.youtube.com/watch?v=N2y6csonII4&ab_channel=EngMicroLectures

Detailed version: https://www.youtube.com/watch?v=3tlqpEmWMLI&ab_channel=TheCherno

Picture link: https://bit.ly/3AJQly9

